



PATENTIN Revised Listing_ST25.txt
SEQUENCE LISTING

<110> Chano, Tokuhiro
Okabe, Hidetoshi
Ikegawa, Shiro

<120> RB1 gene induced protein (RB1CC1) and gene

<130> 3190-070

<140> US 10/516,558

<141> 2004-11-30

<150> PCT/JP03/00882

<151> 2003-01-30

<150> JP P2002-161400

<151> 2002-06-03

<150> JP P2002-214978

<151> 2002-07-24

<160> 182

<170> PatentIn version 3.5

<210> 1

<211> 1594

<212> PRT

<213> Unknown

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<223> human RB1CC1

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Gln Ser Lys Tyr Lys Ile Ala Ile Gln His Gln Val Leu Val Val Asn
35 40 45

Gly Gly Glu Cys Met Ala Ala Asp Arg Arg Val Cys Thr Tyr Ser Ala
50 55 60

Gly Thr Asp Thr Asn Pro Ile Phe Leu Phe Asn Lys Glu Met Ile Leu
65 70 75 80

Cys Asp Arg Pro Pro Ala Ile Pro Lys Thr Thr Phe Ser Thr Glu Asn
85 90 95

Asp Met Glu Ile Lys Val Glu Glu Ser Leu Met Met Pro Ala Val Phe
100 105 110

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His Thr Val Ala Ser Arg Thr Gln Leu Ala Leu Glu Met Tyr Glu Val
115 120 125

Ala Lys Lys Leu Cys Ser Phe Cys Glu Gly Leu Val His Asp Glu His
130 135 140

Leu Gln His Gln Gly Trp Ala Ala Ile Met Ala Asn Leu Glu Asp Cys
145 150 155 160

Ser Asn Ser Tyr Gln Lys Leu Leu Phe Lys Phe Glu Ser Ile Tyr Ser
165 170 175

Asn Tyr Leu Gln Ser Ile Glu Asp Ile Lys Leu Lys Leu Thr His Leu
180 185 190

Gly Thr Ala Val Ser Val Met Ala Lys Ile Pro Leu Leu Glu Cys Leu
195 200 205

Thr Arg His Ser Tyr Arg Glu Cys Leu Gly Arg Leu Asp Ser Leu Pro
210 215 220

Glu His Glu Asp Ser Glu Lys Ala Glu Thr Lys Arg Ser Thr Glu Leu
225 230 235 240

Val Leu Ser Pro Asp Met Pro Arg Thr Thr Asn Glu Ser Leu Leu Thr
245 250 255

Ser Phe Pro Lys Ser Val Glu His Val Ser Pro Asp Thr Ala Asp Ala
260 265 270

Glu Ser Gly Lys Glu Ile Arg Glu Ser Cys Gln Ser Thr Val His Gln
275 280 285

Gln Asp Glu Thr Thr Ile Asp Thr Lys Asp Gly Asp Leu Pro Phe Phe
290 295 300

Asn Val Ser Leu Leu Asp Trp Ile Asn Val Gln Asp Arg Pro Asn Asp
305 310 315 320

Val Glu Ser Leu Val Arg Lys Cys Phe Asp Ser Met Ser Arg Leu Asp
325 330 335

Pro Arg Ile Ile Arg Pro Phe Ile Ala Glu Cys Arg Gln Thr Ile Ala
340 345 350

Lys Leu Asp Asn Gln Asn Met Lys Ala Ile Lys Gly Leu Glu Asp Arg
355 360 365

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Leu Tyr Ala Leu Asp Gln Met Ile Ala Ser Cys Gly Arg Leu Val Asn
370 375 380

Glu Gln Lys Glu Leu Ala Gln Gly Phe Leu Ala Asn Gln Lys Arg Ala
385 390 395 400

Glu Asn Leu Lys Asp Ala Ser Val Leu Pro Asp Leu Cys Leu Ser His
405 410 415

Ala Asn Gln Leu Met Ile Met Leu Gln Asn His Arg Lys Leu Leu Asp
420 425 430

Ile Lys Gln Lys Cys Thr Thr Ala Lys Gln Glu Leu Ala Asn Asn Leu
435 440 445

His Val Arg Leu Lys Trp Cys Cys Phe Val Met Leu His Ala Asp Gln
450 455 460

Asp Gly Glu Lys Leu Gln Ala Leu Leu Arg Leu Val Ile Glu Leu Leu
465 470 475 480

Glu Arg Val Lys Ile Val Glu Ala Leu Ser Thr Val Pro Gln Met Tyr
485 490 495

Cys Leu Ala Val Val Glu Val Val Arg Arg Lys Met Phe Ile Lys His
500 505 510

Tyr Arg Glu Trp Ala Gly Ala Leu Val Lys Asp Gly Lys Arg Leu Tyr
515 520 525

Glu Ala Glu Lys Ser Lys Arg Glu Ser Phe Gly Lys Leu Phe Arg Lys
530 535 540

Ser Phe Leu Arg Asn Arg Leu Phe Arg Gly Leu Asp Ser Trp Pro Pro
545 550 555 560

Ser Phe Cys Thr Gln Lys Pro Arg Lys Phe Asp Cys Glu Leu Pro Asp
565 570 575

Ile Ser Leu Lys Asp Leu Gln Phe Leu Gln Ser Phe Cys Pro Ser Glu
580 585 590

Val Gln Pro Phe Leu Arg Val Pro Leu Leu Cys Asp Phe Glu Pro Leu
595 600 605

His Gln His Val Leu Ala Leu His Asn Leu Val Lys Ala Ala Gln Ser
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610

615

620

Leu Asp Glu Met Ser Gln Thr Ile Thr Asp Leu Leu Ser Glu Gln Lys
625 630 635 640

Ala Ser Val Ser Gln Thr Ser Pro Gln Ser Ala Ser Ser Pro Arg Met
645 650 655

Glu Ser Thr Ala Gly Ile Thr Thr Thr Thr Ser Pro Arg Thr Pro Pro
660 665 670

Pro Leu Thr Val Gln Asp Pro Leu Cys Pro Ala Val Cys Pro Leu Glu
675 680 685

Glu Leu Ser Pro Asp Ser Ile Asp Ala His Thr Phe Asp Phe Glu Thr
690 695 700

Ile Pro His Pro Asn Ile Glu Gln Thr Ile His Gln Val Ser Leu Asp
705 710 715 720

Leu Asp Ser Leu Ala Glu Ser Pro Glu Ser Asp Phe Met Ser Ala Val
725 730 735

Asn Glu Phe Val Ile Glu Glu Asn Leu Ser Ser Pro Asn Pro Ile Ser
740 745 750

Asp Pro Gln Ser Pro Glu Met Met Val Glu Ser Leu Tyr Ser Ser Val
755 760 765

Ile Asn Ala Ile Asp Ser Arg Arg Met Gln Asp Thr Asn Val Cys Gly
770 775 780

Lys Glu Asp Phe Gly Asp His Thr Ser Leu Asn Val Gln Leu Glu Arg
785 790 795 800

Cys Arg Val Val Ala Gln Asp Ser His Phe Ser Ile Gln Thr Ile Lys
805 810 815

Glu Asp Leu Cys His Phe Arg Thr Phe Val Gln Lys Glu Gln Cys Asp
820 825 830

Phe Ser Asn Ser Leu Lys Cys Thr Ala Val Glu Ile Arg Asn Ile Ile
835 840 845

Glu Lys Val Lys Cys Ser Leu Glu Ile Thr Leu Lys Glu Lys His Gln
850 855 860

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Lys Glu Leu Leu Ser Leu Lys Asn Glu Tyr Glu Gly Lys Leu Asp Gly
865 870 875 880

Leu Ile Lys Glu Thr Glu Glu Asn Glu Asn Lys Ile Lys Lys Leu Lys
885 890 895

Gly Glu Leu Val Cys Leu Glu Glu Val Leu Gln Asn Lys Asp Asn Glu
900 905 910

Phe Ala Leu Val Lys His Glu Lys Glu Ala Val Ile Cys Leu Gln Asn
915 920 925

Glu Lys Asp Gln Lys Leu Leu Glu Met Glu Asn Ile Met His Ser Gln
930 935 940

Asn Cys Glu Ile Lys Glu Leu Lys Gln Ser Arg Glu Ile Val Leu Glu
945 950 955 960

Asp Leu Lys Lys Leu His Val Glu Asn Asp Glu Lys Leu Gln Leu Leu
965 970 975

Arg Ala Glu Leu Gln Ser Leu Glu Gln Ser His Leu Lys Glu Leu Glu
980 985 990

Asp Thr Leu Gln Val Arg His Ile Gln Glu Phe Glu Lys Val Met Thr
995 1000 1005

Asp His Arg Val Ser Leu Glu Glu Leu Lys Lys Glu Asn Gln Gln
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Ile Ile Asn Gln Ile Gln Glu Ser His Ala Glu Ile Ile Gln Glu
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Lys Glu Lys Gln Leu Gln Glu Leu Lys Leu Lys Val Ser Asp Leu
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Ser Asp Thr Arg Cys Lys Leu Glu Val Glu Leu Ala Leu Lys Glu
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Ala Glu Thr Asp Glu Ile Lys Ile Leu Leu Glu Glu Ser Arg Ala
1070 1075 1080

Gln Gln Lys Glu Thr Leu Lys Ser Leu Leu Glu Gln Glu Thr Glu
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Asn Leu Arg Thr Glu Ile Ser Lys Leu Asn Gln Lys Ile Gln Asp
1100 1105 1110

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	1145					1150					1155			
Thr	Ser	Leu	His	Asn	Gln	Ala	Phe	Glu	Ile	Glu	Lys	Asn	Leu	Lys
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Glu	Gln	Ile	Ile	Glu	Leu	Gln	Ser	Lys	Leu	Asp	Ser	Glu	Leu	Ser
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Lys	Tyr	Glu	Ala	Ile	Ile	Gln	Asn	Leu	Glu	Lys	Asp	Arg	Gln	Lys
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Glu	Lys	Met	Arg	Lys	Glu	Asn	Ile	Ile	Asn	Asp	Leu	Ser	Asp	Lys
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Leu	Lys	Ser	Thr	Met	Gln	Gln	Gln	Glu	Arg	Asp	Lys	Asp	Leu	Ile
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Ala	Pro	Glu	Leu	Pro	Gly	Glu	Ser	Asp	Arg	Ser	Ala	Val	Glu	Thr
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Ala	Asp	Glu	Gly	Arg	Val	Asp	Ser	Ala	Met	Glu	Thr	Ser	Met	Met
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Ile	Met	Leu	Leu	Glu	Arg	Thr	Leu	Gln	Leu	Lys	Glu	Glu	Glu	Asn
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Ser	Leu	Pro	Ala	Leu	Asp	Leu	Lys	Pro	Gly	Glu	Gly	Ala	Ser	Gly
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Ala	Ser	Arg	Arg	Pro	Trp	Val	Leu	Gly	Lys	Val	Met	Glu	Lys	Glu
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Tyr	Cys	Gln	Ala	Lys	Lys	Ala	Gln	Asn	Arg	Phe	Lys	Val	Pro	Leu
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20 25 30

Gln Ser Lys Tyr Lys Ile Ala Ile Gln His Gln Val Leu Val Val Asn
35 40 45

Gly Gly Glu Cys Met Ala Ala Asp Arg Arg Val Cys Thr Tyr Ser Ala
50 55 60

Gly Thr Asp Thr Asn Pro Ile Phe Leu Phe Asn Lys Glu Met Ile Leu
65 70 75 80

Cys Asp Arg Ala Pro Ala Ile Pro Lys Ala Thr Phe Ser Thr Glu Asn
85 90 95

Asp Met Glu Ile Lys Val Glu Glu Ser Leu Met Met Pro Ala Val Phe
100 105 110

His Thr Val Ala Ser Arg Thr Gln Leu Ala Val Glu Met Tyr Asp Val
115 120 125

Ala Lys Lys Leu Cys Ser Phe Cys Glu Gly Leu Val His Asp Glu His
130 135 140

Leu Gln His Gln Gly Trp Ala Ala Ile Met Ala Asn Leu Glu Asp Cys
145 150 155 160

Ser Asn Ser Tyr Gln Lys Leu Leu Phe Lys Phe Glu Ser Ile Tyr Ser
165 170 175

Asp Tyr Leu Gln Ser Ile Glu Asp Ile Lys Leu Lys Leu Thr His Leu
180 185 190

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Gly Thr Ala Val Ser Val Met Ala Lys Ile Pro Leu Leu Glu Cys Leu
195 200 205

Thr Arg His Ser Tyr Arg Glu Cys Leu Gly Arg Pro Asp Ser Leu Asn
210 215 220

Glu His Glu Gly Ser Glu Lys Ala Glu Met Lys Arg Ser Thr Glu Leu
225 230 235 240

Val Leu Ser Pro Asp Met Pro Arg Thr Thr Asn Thr Ser Leu Val Thr
245 250 255

Ser Phe His Lys Ser Met Glu His Val Ala Pro Asp Pro Thr Gly Thr
260 265 270

Glu Arg Gly Lys Glu Leu Arg Glu Ser Cys Gln Ser Thr Val Gln Gln
275 280 285

Glu Glu Ala Ser Val Asp Ala Lys Asp Ser Asp Leu Pro Phe Phe Asn
290 295 300

Val Ser Leu Leu Asp Trp Ile Asn Val Gln Asp Arg Pro Asn Asp Val
305 310 315 320

Glu Ser Leu Val Arg Lys Cys Phe Asp Ser Met Ser Arg Leu Asp Pro
325 330 335

Lys Ile Ile Gln Pro Phe Met Leu Glu Cys His Gln Thr Ile Ala Lys
340 345 350

Leu Asp Asn Gln Asn Met Lys Ala Ile Lys Gly Leu Glu Asp Arg Leu
355 360 365

Tyr Ala Leu Asp Gln Met Ile Ala Ser Cys Ser Arg Leu Val Asn Glu
370 375 380

Gln Lys Glu Leu Ala Gln Gly Phe Leu Ala Asn Gln Met Arg Ala Glu
385 390 395 400

Asn Leu Lys Asp Ala Ser Val Leu Pro Asp Leu Cys Leu Ser His Ala
405 410 415

Asn Gln Leu Met Ile Met Leu Gln Asn His Arg Lys Leu Leu Asp Ile
420 425 430

Lys Gln Lys Cys Thr Thr Ala Lys Gln Glu Leu Ala Asn Asn Leu His
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435

440

445

Val Arg Leu Lys Trp Cys Cys Phe Val Met Leu His Ala Asp Gln Asp
450 455 460

Gly Glu Lys Leu Gln Ala Leu Leu Arg Leu Val Ile Glu Leu Leu Glu
465 470 475 480

Arg Val Arg Ile Val Glu Ala Leu Ser Thr Val Pro Gln Met Tyr Cys
485 490 495

Leu Ala Val Val Glu Val Val Arg Arg Lys Met Phe Ile Lys His Tyr
500 505 510

Arg Glu Trp Ala Gly Ala Leu Val Lys Asp Gly Lys Gln Leu Tyr Glu
515 520 525

Ala Glu Lys Ser Lys Arg Glu Ser Phe Gly Lys Leu Phe Arg Lys Ser
530 535 540

Phe Leu Arg Asn Arg Leu Phe Lys Gly Leu Asp Ser Trp Pro Ser Ser
545 550 555 560

Phe Cys Thr Gln Lys Pro Arg Lys Phe Asp Cys Glu Leu Pro Asp Ile
565 570 575

Ser Leu Lys Asp Leu Gln Phe Leu Gln Ser Phe Cys Pro Ser Glu Val
580 585 590

Gln Pro Phe Leu Arg Val Pro Leu Leu Cys Asp Phe Glu Pro Leu His
595 600 605

Gln His Val Leu Ala Leu His Asn Leu Val Lys Ala Ala Gln Ser Leu
610 615 620

Asp Glu Met Ser Gln Thr Ile Thr Asp Leu Leu Asn Glu Gln Lys Val
625 630 635 640

Ser Thr Ser Gln Ala Ser Pro Gln Ser Ala Ala Ser Pro Arg Ile Glu
645 650 655

Ser Thr Thr Gly Ile Thr Thr Thr Thr Ser Pro Lys Thr Pro Pro Pro
660 665 670

Leu Thr Val Gln Asp Thr Leu Cys Pro Ala Val Cys Pro Leu Glu Glu
675 680 685

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Leu Ser Pro Asp Ser Ile Asp Ala His Thr Phe Asp Phe Glu Thr Ile
690 695 700

Ser His Pro Asn Thr Glu Gln Pro Val His Gln Ala Ser Ile Asp Leu
705 710 715 720

Asp Ser Leu Ala Glu Ser Pro Glu Ser Asp Phe Met Ser Ala Val Asn
725 730 735

Glu Phe Val Ile Glu Glu Asn Leu Ser Ser Pro Asn Pro Ile Ser Asp
740 745 750

Pro Gln Ser Pro Glu Met Met Val Glu Ser Leu Tyr Ser Ser Val Ile
755 760 765

Asn Ala Ile Asp Ser Arg Arg Met Gln Asp Thr Ser Thr Arg Gly Asn
770 775 780

Glu Gly Phe Gly Asp Arg Ala Ala Leu His Val Gln Leu Glu Lys Cys
785 790 795 800

Arg Ala Ala Ala Gln Asp Ser His Thr Ser Ile Gln Thr Ile Lys Asp
805 810 815

Asp Leu Cys His Phe Arg Thr Phe Val Gln Lys Glu Gln Cys Asp Leu
820 825 830

Ala Asn Tyr Leu Lys Cys Thr Ala Val Glu Ile Arg Asn Ile Ile Glu
835 840 845

Lys Val Lys Cys Ser Leu Glu Ile Thr Leu Lys Glu Lys His Gln Gln
850 855 860

Glu Leu Gln Ser Leu Lys Ile Glu Tyr Glu Cys Lys Leu Asp Ala Leu
865 870 875 880

Val Lys Asp Ser Glu Glu Asn Val Asn Lys Ile Leu Lys Leu Lys Glu
885 890 895

Asn Leu Val Ser Leu Glu Glu Ala Leu Gln Asn Lys Asp Asn Glu Phe
900 905 910

Thr Ser Ile Lys His Glu Lys Asp Ala Ile Val Cys Val Gln Gln Glu
915 920 925

Lys Asp Gln Lys Leu Leu Glu Met Glu Lys Ile Met His Thr Gln His
930 935 940

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Cys Glu Ile Lys Glu Leu Lys Gln Ser Arg Glu Met Ala Leu Glu Asp
945 950 955 960

Leu Lys Lys Leu His Asp Glu Lys Ile Glu Ser Leu Arg Ala Glu Phe
965 970 975

Gln Cys Leu Glu Glu Asn His Leu Lys Glu Leu Glu Asp Thr Leu His
980 985 990

Ile Arg His Thr Gln Glu Phe Glu Lys Val Met Thr Asp His Asn Met
995 1000 1005

Ser Leu Glu Lys Leu Lys Lys Glu Asn Gln Gln Arg Ile Asp Gln
1010 1015 1020

Met Leu Glu Ser His Ala Ser Thr Ile Gln Glu Lys Glu Gln Gln
1025 1030 1035

Leu Gln Glu Leu Lys Leu Lys Val Ser Asp Leu Ser Asp Met Arg
1040 1045 1050

Cys Lys Leu Glu Val Glu Leu Ala Leu Lys Glu Ala Glu Thr Asp
1055 1060 1065

Glu Ile Lys Ile Leu Leu Glu Glu Ser Arg Thr Gln Gln Lys Glu
1070 1075 1080

Met Leu Lys Ser Leu Leu Glu Gln Glu Thr Glu Asn Leu Arg Thr
1085 1090 1095

Glu Ile Ser Lys Leu Asn Gln Lys Ile His Asp Asn Asn Glu Ser
1100 1105 1110

Tyr Gln Val Gly Leu Ser Glu Leu Arg Ala Leu Met Thr Ile Glu
1115 1120 1125

Lys Asp Gln Cys Ile Ser Glu Leu Ile Ser Arg His Glu Glu Glu
1130 1135 1140

Ser Asn Ile Leu Lys Ala Glu Leu Asp Asn Val Thr Ser Leu His
1145 1150 1155

Arg Gln Ala Tyr Glu Ile Glu Lys Lys Leu Lys Glu Gln Ile Val
1160 1165 1170

Glu Leu Gln Thr Arg Leu Asn Ser Glu Leu Ser Ala Leu Glu Lys
1175 1180 1185

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Gln	Lys	Asp	Glu	Lys	Ile	Thr	Gln	Gln	Glu	Glu	Lys	Tyr	Glu	Ala
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Leu	Ile	Gln	Asn	Leu	Glu	Lys	Asp	Lys	Glu	Arg	Leu	Val	Lys	Asn
	1205					1210					1215			
His	Glu	Gln	Asp	Lys	Glu	His	Leu	Ile	Gln	Glu	Leu	Asn	Phe	Glu
	1220					1225					1230			
Lys	Asn	Lys	Ala	Val	Gln	Thr	Ala	Leu	Asp	Glu	Phe	Lys	Val	Glu
	1235					1240					1245			
Arg	Glu	Leu	Val	Glu	Lys	Glu	Leu	Leu	Glu	Lys	Val	Lys	His	Leu
	1250					1255					1260			
Glu	Asn	Gln	Ile	Ala	Lys	Thr	Pro	Ala	Phe	Glu	Ser	Ala	Arg	Glu
	1265					1270					1275			
Asp	Ser	Ser	Ser	Leu	Val	Ala	Glu	Leu	Gln	Glu	Lys	Leu	Gln	Glu
	1280					1285					1290			
Glu	Lys	Ala	Lys	Phe	Leu	Glu	Gln	Leu	Glu	Glu	Gln	Glu	Lys	Arg
	1295					1300					1305			
Lys	Asn	Glu	Glu	Met	Gln	Asn	Val	Arg	Thr	Ser	Leu	Ile	Ala	Glu
	1310					1315					1320			
Gln	Gln	Thr	Asn	Phe	Asn	Thr	Val	Leu	Thr	Arg	Glu	Lys	Met	Arg
	1325					1330					1335			
Lys	Glu	Asn	Ile	Ile	Asn	Asp	Leu	Ser	Asp	Lys	Leu	Lys	Ser	Thr
	1340					1345					1350			
Met	Gln	Gln	Gln	Glu	Arg	Asp	Lys	Asp	Leu	Ile	Glu	Ser	Leu	Ser
	1355					1360					1365			
Glu	Asp	Arg	Ala	Arg	Leu	Leu	Glu	Glu	Lys	Lys	Gln	Leu	Glu	Glu
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Glu	Val	Ser	Lys	Leu	Arg	Thr	Ser	Ser	Phe	Leu	Ser	Ser	Ala	Pro
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Val	Ala	Ala	Ala	Pro	Glu	Leu	Tyr	Gly	Ala	Cys	Ala	Pro	Glu	Leu
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Pro	Gly	Glu	Pro	Glu	Arg	Ser	Val	Met	Glu	Thr	Ala	Asp	Glu	Gly

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1415

1420

1425

Arg Leu Asp Ser Ala Met Glu Thr Ser Met Met Ser Val Gln Glu
1430 1435 1440

Asn Met Leu Ser Glu Glu Lys Gln Arg Ile Met Leu Leu Glu Arg
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Thr Leu Gln Leu Lys Glu Glu Glu Asn Lys Arg Leu Asn Gln Arg
1460 1465 1470

Leu Met Ser Gln Ser Leu Ser Ser Val Ser Ser Arg His Ser Glu
1475 1480 1485

Lys Ile Ala Ile Arg Asp Phe Gln Val Gly Asp Leu Val Leu Ile
1490 1495 1500

Ile Leu Asp Glu Arg His Asp Asn Tyr Val Leu Phe Thr Val Ser
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Pro Thr Leu Tyr Phe Leu His Ser Glu Ser Leu Pro Ala Leu Asp
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Leu Lys Pro Gly Glu Gly Ala Ser Gly Ala Ser Arg Arg Pro Trp
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Val Leu Gly Lys Val Met Glu Lys Glu Tyr Cys Gln Ala Lys Lys
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Ala Gln Asn Arg Phe Lys Val Pro Leu Gly Thr Lys Phe Tyr Arg
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Val Lys Ala Val Ser Trp Asn Lys Lys Val
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<210> 131
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<400> 132
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<400> 133
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PATENTIN Revised Listing_ST25.txt

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